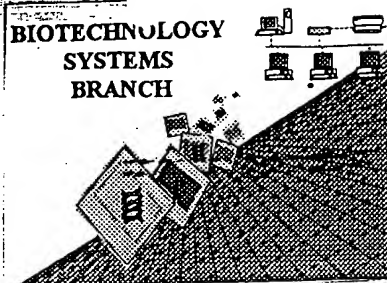


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/478,188
Source: 1652
Date Processed by STIC: 12-29-00

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JAN 10 2001
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1652

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Does Not Comply
 Corrected Diskette Needed
 see p. 6

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280 gaggctcgcg ttgaggttga gccgtcgaa ccggtcggcc aacccctcgt agttcgtctg 9180
281 gaactcgglt ctcttgggtc tcagcgtcac ctccccggc gtcggcgcca gcagcgtgtc 9240
282 cagctcctcg gcgtgtact cggcgatcgg ctggccggga tcacagcggc cggacttgcg 9300
283 ccagatctgc cagtcggggc taccacactt gtactcgggg aaaaggaacg cccgctcgtc 9360
284 cagggacttc gaggcgtcca gcatctgtc caggtcgagg gcgatgctct ggcggagacc 9420
285 gtcgcagtcg ggcacatgc cctgggggtc gttgaacgag aacgcggaga cgcggagcga 9480
286 ggaagggccc tgcctctcg tctggcgaa ccgtgcgaac agggcccgga tcacggctg 9540

```

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TECH CENTER 1600/2900

09/478,188

p.6

<210> 101

Seg #101

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<220>

<223> partial ORF

<400> 101

<210> 102

<211> 18

<212> DNA

<213> Artificial Sequence

Missing mandatory <211>

feature: length of sequence.

Missing sequence number 101.

Note: If intended
to be a skipped sequence,
proper format is:

<210> 101

<400> 101

000

VERIFICATION SUMMARY DATE: 12/29/2000
PATENT APPLICATION: US/09/478,188 TIME: 11:55:09

Input Set : A:\M-8960-1.app
Output Set: N:\CRF3\12292000\I478188.raw

L:2435 M:282 W: Numeric Field Identifier Missing, <211> is required.